NOTE XLI.

PETRICOLA PHOLADIFORMIS LAM. ON THE DUTCH COAST

BY

Dr. J. H. VERNHOUT.

(With a sketch of the Dutch coast).

In 1907 Mr. Caesar R. Boettger[1]) called attention to the fact that this species, an inhabitant of the North-American seas, since the last decennium of past century is spreading on the European coast. In Europe it was found first in England at Cricksea on the river Crouch, in July 1890[2]), and on the Lincolnshire coast[3]). The following years brought further references about the occurrence of *Petricola pholadiformis* on the English coast[4]). At present the localities where it is found, stretch from Shellness, near Sandwich, Kent, in the south, to Mablethorpe, Lincolnshire, in the north. Mr. Loppens[5]) was the first to notice this species on the continent; he found it near Nieuwpoort on the coast of Belgium, in 1899. Very soon afterwards other localities were known where *Petricola pholadiformis* occurred

1) Caesar R. Boettger. Nachrichtsbl. der Deutschen Malakozool. Ges. 1907, 39. Jahrg. p. 206.

2) W. Crouch. Ordinary meeting of the Malacol. Soc. of London, 8th May 1896: Proc. Mal. Soc. 1897, Vol. II, p. 134.

3) A. S. Kennard. Proc. Mal. Soc. 1909, Vol. VIII, p. 8.

4) J. E. Cooper. Ordinary meeting of the Malacol. Soc. of London, 12th July 1895: Proc. Mal. Soc. 1895, Vol. I. p. 291.

J. E. Cooper and A. S. Kennard. Ordinary meeting of the Malacol. Soc. of London, 8th May 1896: Proc. Mal. Soc. 1897, Vol. II, pp. 134, 135.

A. S. Kennard. Loc. cit. sub [3]).

5) K. Loppens. Annales Soc. royale Zool. et Malacol. de Belgique, 1902, Tome XXXVII, pp. XLI, XLII.

on the Belgian coast [1]), and also at Dunkerque [2]) in France. In June 1906 Miss H. Icke (presently Mrs. Martin—Icke) found this species on the Dutch coast near Noordwijk [3]). In the same year it was noticed by Mr. Caesar R. Boettger [4]), by Mr. E. Wolf [4]) and by the Rev. Ricklefs [5]) on different points near the German coast, from the Dutch till the Danish frontier. Mr. Julius Pfeffer [6]) mentioned the occurrence near Hooge, a small North Frisian island, south of Föhr, and stated the fact that this species never occurred there before 1906. Finally Mr. H. Schlesch [7]) obtained it in 1907 from Fanö and Manö, two Danish islands. Seeing thus, that *Petricola pholadiformis* has a rather wide distribution on the North-Sea-coast, and that it is found rather abundantly near our frontiers, I expected a priori that Mrs. Martin's statement should not remain the only one. When examining the collections of shells from our country, acquired by the „Rijks Museum van Natuurlijke Historie" during the last years, I actually found several specimens of *Petricola pholadiformis* from various localities along the coast. They are the following:

Domburg, isle of Walcheren, 1905, Mr. W. C. van Heurn; 1912, Mr. J. H. Vernhout.

Renesse, isle of Schouwen, 1911, Mrs. H. Martin—Icke.

Scheveningen, 1905, Mr. W. C. van Heurn.

Katwijk, 1909, Mr. W. C. van Heurn.

1) P. Dupuis et S. Putzeys. Annales Soc. royale Zool. et Malacol. de Belgique, 1902, Tome XXXVII, p. IV.

P. Pelseneer. Association française pour l'avancement des Sciences. Comptes-rendus et Mémoires, Angers, 1903, Vol. II, p. 774.

2) Bouly de Lesdain. Feuille des jeunes Naturalistes, 1906, IVe série, 37e année, p. 20.

3) H. Icke. Tijdschrift der Nederl. Dierk. Vereeniging, 1907, 2de serie, deel X, p. 226.

4) Caesar R. Boettger. Zoolog. Anzeiger, 1907, Band XXXI, p. 268.

5) Ricklefs. Nachrichtsbl. der Deutschen Malakozool. Ges. 1908, 40. Jahrg. p. 41.

6) Julius Pfeffer. Nachrichtsbl. der Deutschen Malakozool. Ges. 1911, 43. Jahrg. p. 67.

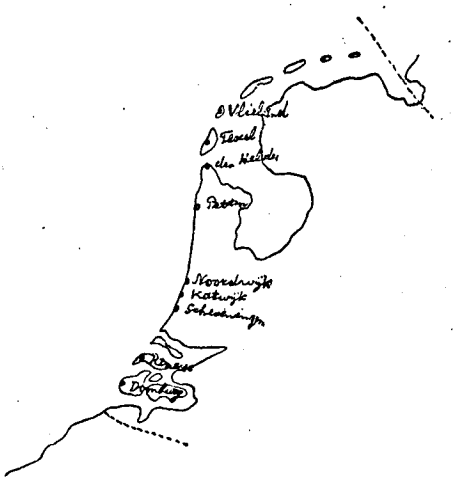
7) H. Schlesch. Flora og Fauna, 1907, p. 73.

Petten, 1908, Mr. K. W. Dammerman.

den Helder, 1907.

Coast of Texel, 1908, Mr. K. W. Dammerman; 1909, Mr. W. C. van Heurn.

Coast of Vlieland, 1906, Mr. W. C. van Heurn.



Sketch of the Dutch coast.

From these facts, one can conclude that *Petricola pholadiformis* will be found on all points of our coast; thus it has a nearly uninterrupted distribution from Dunkerque to Fanö.

I can affirm the statements of Mr. Giard[1]) and of Mr. Pelseneer[2]), who suppose that on the Belgian coast *Petricola pholadiformis* is on the way to supplant *Pholas candida* L. This autumn (Sept. 1912) I found at Domburg only *Petricola pholadiformis*, no *Pholas candida*, which latter species I recollect having found there in great abundance many years ago.

Leyden Museum, 2nd October 1912.

1) A. Giard. Feuille des jeunes Naturalistes, 1907, IVe série, 37e année, p. 51.
2) P. Pelseneer. Loc. cit.